



SPIVAK TO PLAY AT ALL TECH

Inst. Comm.
Levies Tax
On Activities
Non-Partisan Group
Reviews Constitution
Of Budget Comm.

The Institute Committee opened its final meeting of the semester with the prospect of solving the question of how to write a constitution for the Budget Committee. During the course of the meeting, a motion placing a tax on activities was passed.

It was decided to refer the Budget Committee problem to a committee of five impartial members. It was agreed that the chairman was to choose them, and the following accepted to serve: Robert Brieber '52, James Jensen '50, Jerry Fisch '50, Carl Mellon '50, Walter Casey '51.

Activity Tax Levied
Having solved this question, discussion was begun on a move to levy an Activity Tax, the income of which is to be used to finance the Activities Ball. The tax is as follows: \$20 for a class A activity; \$7 for a class B activity; \$2 per man for class officers; \$2 per man for members of subcommittees who are seniors and/or officers. The motion was carried.

A move was passed to the effect that the Institute Committee sponsor the World Student Service Fund Drive and that N.S.A. as the appropriate subcommittee, handle the drive for the Institute Committee.

Charles Richards was approved as the Managing Editor of *Technique*. The next motion, which was

"Flight Test" In Design Stage
Possible With New Invention

A new machine designed to check flight characteristics and control equipment of an aircraft prior to its construction was announced today by President Killian in an address to a Technology alumni group in Los Angeles.

On this elaborate and sensitive calculator, known as the "flight simulator," Technology engineers will be able to set up an "electrical model" of any aircraft which is in an advanced stage of design and then apply an actual autopilot to fly this non-existent, theoretical craft.

Test In Design Stage
The autopilot, which may be the "muscle" of either a guiding mechanism for a guided missile or an automatic pilot for a more conventional airplane, then has exactly the same problem that it would have in the actual flight of the missile or airplane, were the prototype built. Thus the simulator is able to "flight test" an aircraft in the design stage.

A combination of intricate electronic and mechanical equipment, the flight simulator represents the results of a cooperative project involving more than fifty engineers and nearly three years' work. It was built under the auspices of the U. S. Navy Bureau of Ordnance in the Dynamic Analysis and Control Laboratory here at the Institute, of which Dr. Albert C. Hall, associate professor of electrical engineering, is director.

Saves Time and Money
Because it enables engineers to study some of the flight character-

istics of any given design before construction is begun, the simulator can save much of the cost and time of flight testing and should help in improving aircraft design. It requires only flight characteristics obtained from working plans and carefully measured data from wind tunnel tests of a model of the proposed craft.

If, for instance, aircraft performance on the flight simulator is not satisfactory, the wing and tail designs of the "electrical model" may be changed by simple adjustments of the simulator controls until the desired behavior is obtained. Suitable changes can then be incorporated in the plans before the actual plane is built.

"The fundamental purpose of

(Continued on Page 4)

Noted Historian
Visits Institute
History Never Stilled,
Says Visiting Professor

Dr. S. Giedion, historian and one of the leading figures in the promotion of modern architecture and art, has been appointed Visiting Professor in the Department of English and History at the Institute for the term starting in February. In announcing the appointment, Professor Howard R. Bartlett, head of the department, said that while at Technology, Dr. Giedion will conduct a seminar, "Civic Centers and Social Life," and give a series of five public lectures on "The Role of Art in Contemporary Life."

Born in Switzerland in 1894, Giedion educated there and in Germany and Italy. He was trained first as an engineer but later began the study of the history of art. Dr. Giedion's interest in contemporary art and architecture and his personal contact with leading artists shaped his historical methods. His fundamental principles in dealing with historical phenomena is: "History is never stilled. It is ever in movement like the generation observing it."

General Secretary in 1928
When in 1928 Les Congres Internationaux d'Architecture Moderne was founded, Dr. Giedion was appointed its general secretary. Such publications of the C.I.A.M. as *Dwellings for the Lower Income Classes* (1930) and *Can Our Cities Survive?* (1943) have been issued under his supervision.

As a counselor of the Kunsthau at Zurich, it was possible for him to arrange in the early 1930's the first over-all shows of such artists as Picasso, Juan Gris, Fernand Geger, and Hans Arp.

In 1938, Dr. Giedion was the Charles Eliot Norton professor at Harvard, and from 1942 to 1945, he was a visiting professor at Yale. Since 1946 he has been at the Federal Institute of Technology at Zurich.

MESSIAH RECORDS

Anyone interested in obtaining records of the M.I.T. Glee Club performance of the "Messiah" should contact the music office in 14-N-236 or the music library in Walker Memorial.

Dorm Comm, 5:15 Club,
Interfraternity Council,
Sponsor Extravaganza

In an effort to bring the entire student body together in one large activity, the 5:15 Club, Interfraternity Council, and the Dormitory Committee laid definite plans this week for the All-Tech Dance. Nationally famous Charlie Spivak, billed as "the man who plays the sweetest trumpet in the world," has been selected by the dance committee to supply the music for the occasion.

Spivak's orchestra, which is currently engaged in Cuba and which is flying here for the dance, features baritone vocalist Tommy Lynn and drumming sensation Bobby Rickey. Only eight years old, the orchestra has rocketed to top-flight stature so fast that it is recognized as among the kings of the entertainment world.

ALL-TECH MAESTRO



Charlie Spivak whose orchestra will perform at the All-Tech Dance on February 25. Billed as the man "with honey in his horn," the popular bandleader will bring several vocalists to the all living group sponsored affair.

Admiral Cochrane
To Give Ship Talk
High Seas Ships To Be
Topic Of Sun. Lecture

"Modern Ships for the High Seas," will be the topic of the second Popular Science lecture to be held at 4:00 p.m., Sunday, January 15, in Room 10-250. Guest speaker will be Admiral Edward L. Cochrane, professor of naval construction at the Institute.

In his illustrated talk, Admiral Cochrane will outline the present-day interest of the United States in the high seas. He will then discuss the evolution of ocean-going ships: wood and sail, and today's products of steel and machinery.

Men-of-war of World War II and the trends for the future will be covered together with cargo and passenger merchant vessels.

The third lecture in the popular science series will be given on Sunday, February 12, when Dr. James M. Austin, associate professor of meteorology at Technology, will present "The Problem of Weather Forecasting."

Compton At Institute After
Resignation, Vacation

Dr. Karl T. Compton has returned to the Institute after a rest of several months in Central America. He will be at Technology two or three days a week in his position as Chairman of the Institute Corporation until the end of the term, after which he will be here every day. Dr. Compton recently resigned as Chairman of the Research and Development Board of the Department of Defense.

Date Correction
Originally planned for February 18, the dance date has been changed to February 25 so as not to conflict with the Wellesley College "Winter Carousel." Realizing that this conflict would hamper the potential success of the dance, the change in date to February 25 was put into effect. Dates and price for the sale of tickets has not been announced by the committee, but the price is expected to run \$3.60 per couple or under. Albert Cohen '51, member of the committee, stated that the price was set in this range in an effort to establish the minimum price possible to keep within the budget of the dance committee and at the same time bring this extravaganza to the student body without high prices.

To Be Informal
Although a dance of this nature ordinarily warrants formal attire, the committee has decided unanimously to declare the dance informal for the sake of ease and comfort. It was also pointed out by the committee that because of this, the entire cost of the dance from the student viewpoint will be minimized to a large extent.

The All-Tech Dance marks the first united effort of all three living groups in one activity. This combined effort has been "on the fire" for three years but last November, when three representatives from each living group met, was the first time that any formal action was taken on the subject. At that time Allen C. Odian '51, Arthur Orenberg '51, and Albert Cohen '51, representing the commuters; Harry M. Johnson '51, Seward H. Mott '51, and Fred H. Weitz '51, representing the I.F.C.; and Donald C. Bishop '50, Robert B. Wolf '50, and Donald S. Schlatter '51, representing the Dormitories, discussed definite plans and finally realized the potential-

(Continued on Page 3)

N. Y. Author Kohn
To Lecture Here

Professor Hans Kohn of the City College of New York will lecture on "The Revolution of 1848" on Tuesday, January 17, at 4:00 p.m. in Huntington Hall. Professor Kohn is an outstanding authority on the subject of nationalism. He is the author of *The Idea of Nationalism, Revolution and Dictatorships, and The Twentieth Century*.

This lecture is being given as part of E-21, The U. S. in World History. All other students and members of the staff who are interested are invited to attend.

Review Of New England Skiing Resorts
Shows Stowe-Mansfield Most Popular

By LARRY B. COLLINS
Last issue, the ski areas of New England were divided into three rough categories: the low mountain, medium mountain, and high mountain developments, with a discussion of the first class only. In the second category we find some of the older areas: Big Bromley, Cran-

more (North Conway) and Pico Peak. Bromley has four T-bar tows with the highest capacity in New England so large crowds can be accommodated with little or no lift-line waiting. In this section, there are quite a few lodges, good tows, ski schools, and a board package plan in conjunction with Snow Valley, all of which offer a great deal of economy. Bromley is notable for

its tremendous acreage of open slopes as well as trails, an excellent situation for the improving novice. **Snow Train Mecca**
Cranmore, in the middle of North Conway, is convenient to all the lodges, has much open acreage and good trails, and is the snow-train Mecca. From reports, it is the most



Photo by Peabody

crowded area in that section during weekends. Cranmore is probably fine for a week's stay and not as expensive as it might appear. Hannes Schneider went there because it was a good mountain, and it is the oldest of the New England major developments.

Pico in Woods
Pico is somewhat stuck out in the

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The Tech

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ANOTHER CANDLE IN THE CAKE

Several days ago we passed our seventieth birthday, celebrated the event appropriately at our annual banquet, and inaugurated Volume LXX of *The Tech*. The anniversary holds more than sentimental significance for us, for with it the management of the newspaper changed hands. A new managing board was installed and many staff promotions were made. With a final salute to the Managing Board of Volume LXIX, we begin the new year and a new volume.

GENERAL STATEMENT

It would be well here to outline a few of our policies, editorial and otherwise. The primary purpose of this newspaper is that of communication. In order to present the news from an unbiased viewpoint, we shall continue to make every effort to separate opinion from the factual material of our news stories. Moreover, we do not believe that it is our job to act as publicity medium for the various activity groups throughout the school. It is for us to decide what constitutes news, and how heavily it should be weighed. We mention this in the hope that the numerous publicity chairmen who think otherwise will take note.

ALL-TECH DANCE

Through some process of spontaneous combustion, plans for the All-Tech Dance have emerged. The project is an ambitious one, with a noble purpose. It is probably the first significant social affair to be held here directly under the auspices of a three-way living group combine. Our far-flung living groups are destined to remain apart, but social events such as this will do much to make the entire undergraduate body a more coherent entity. We are especially glad to see that this isn't a half-hearted effort: the committee has taken the plunge in procuring a name band, but this move we believe assures a successful student reaction. We wish them luck.

MONEY TROUBLE

The Institute Committee reached a dilemma last Wednesday. Everyone agreed that the forthcoming Activities Ball should be a big enough and costly enough affair to justly reward hard-working activity men. But no one knew where to get the money to pay for it. Attendance is to be by invitation only, each activity being allotted certain number of bids—after it has contributed its allotted share of the costs. The cost to each organization was determined on the assumption that all activities will participate. It was mentioned that even the relatively small expense is too much for the more financially strained groups, and that some might choose to forego their invitations rather than be taxed to pay for the affair. This loss of revenue would result in a deficit. The idea of substantially cutting the budget was considered, and rejected. The expenditures proposed for this year are greater than the amount spent on the dance last year. And last year the thing wound up in the red: not all the activities decided to participate.

Unless the Activities Ball receives backing from every organization represented on Instcomm the dance will incur a deficit. We believe that a budget drawn up under the assumption that one hundred per cent cooperation will be received is overly optimistic.

However, we hope that the full value of the Activities Ball will be recognized and complete support will be given to the committee.

AFTER HOURS

DANCES

Courtesy "The Tom Cat Hour," WMIT

FRIDAY, JANUARY 13
 Mass. General Hospital—Regular dance held at Walcott House—Admission 50c.—Refreshments and game room downstairs—Subway to Charles Station. These semi-weekly dances considered about the best of hospital dances.

Franklin Square House—Informal dance at the hotel-dorm for career and working girls at 8 p.m. Admission free but by ticket only. See Mary Burke—Walker Mem. Comm. office. Women can sign out until 2 a.m.—Subway to Washington St., Forest Hill line to Northampton.

YVCA—Monthly dance of Y's College and Career members in Hotel Pioneer, 140 Clarendon St.—Admission 50c.—Stuart and Clarendon Sts.—Copley Stn.

Wheaton College—Acquaintance dance for Junior and Senior girls—Admission 50c.—Route 1 south to route 140, then to Norton, Mass.—35 miles.

SATURDAY, JANUARY 14

Carleton Club—Usual set-up. Hotel Commander. Harvard Square. Admission 60c.

THE THEATRE

Brigadoon—Plymouth—A really top musical featuring such songs as "Highland Fling" here after a long and successful Broadway run. Excellent music and dancing in a Scotch setting that "ye canna miss."
 Dance Me A Soag—Shubert—third rate revue.
 The Happy Time—Plymouth—Warm-hearted family comedy.
 Design for a Stained Glass Window—Woburn—Religious drama in Elizabethan England.
 Opera—Albert Herring—Opera House—Goldovsky's treatment of Britten Opera.

BETTER MOVIES

Devil in the Flesh—Beacon Hill—with little competition the finest film in town.
 Inspector General—Metropolitan—In this classification by the skin of its teeth is a Kaye Kaye carrying through Hollywood's version of the Gogol play.

SPORTS

FRIDAY, JANUARY 13
 Football at the Garden—Chicago Stars vs. Boston Celtics.

SATURDAY, JANUARY 14
 College Basketball at the Garden—Doubleheader with Dartmouth vs. Harvard and DePaul vs. Boston College.

SUNDAY, JANUARY 15
 Professional Hockey—The Chicago Black Hawks take on the Boston Bruins at the Garden.

TUESDAY, JANUARY 17
 Professional Basketball—Minneapolis "Lakers" vs. The Boston Celtics.

Skiing

(Continued from Page 1)

woods east of Rutland, Vermont; we don't know much about the place, but it is run by good skiers and good skiers go there.

These last three areas mentioned do not have the altitude to have good snow as consistently as our next three, but they are next in line, with plenty of variety in trails. Bromley and Cranmore have the big-development atmosphere, Cranmore having developed a patina and savoir-faire through its long association with skiing.

There are four high country areas that, in normal winters, have consistently deeper snow and better surface conditions than any of the others. Three of them are in New England and one is in Quebec. The closest is Cannon Mountain, which forms one side of the famous Franconia Notch in northern New Hampshire. This area is not a good one for beginners and is only moderately good for intermediates. It has only trail skiing, with the exception of a short practice rope, and these trails are intermediate to expert trails, considered by many to be the finest in New England. The whole area is, in my opinion, the best administered of them all and has very reasonable tow and off-tow charges. The tow is an aerial tramway carrying about twenty passengers and its capacity is such

that waiting is only serious on important weekends. The local lodges are not very close, and this lack of compactness, together with the lack of varied terrain makes this otherwise excellent area not particularly suitable for a group of varying ability, or for a vacation-long stay.

Skiing in Canada

The Laurentian area of Quebec is a wonderful strip of rope tow slopes and T-bars through a series of small towns culminating in the high-country chair lift on Mont Tremblant. Though the most distant, it has the finest snow conditions, every kind of slope or trail, fine touring trails, and low expenses, travel excepted.

Mad River Glen in Fayston, Vt., is thirty or so miles south of Stowe and snow conditions are similar. Having a chair lift, with largely intermediate trails, it is not particularly suitable for the real beginner, and has little variety. It is suitable for a weekend or for a side trip from Stowe for the intermediate or expert.

Favorite Ski Area

The favorite college vacation-time ski area is undoubtedly the Stowe-Mt. Mansfield complex of chair lift, T-bar, rope tows, open slopes, and trails. This area offers the longest lift with the greatest vertical descent, plus an adjacent T-bar lift 4,000 ft. long that alone is the equal of most of the other areas. It has every grade of trail from touring to expert, served by both lifts. We think it has the greatest variety of any New England area, gives the beginner the best facilities for improvement at every level, and has, at vacation time, the most collegiate crowd and atmosphere.

Boston Slopes

For those looking for a one-day ski journey, there are quite a few good tows in the immediate vicinity of Boston, when snow is right. Try Groton Country Club, Locke's Hill in Amesbury, the new Blue Hill development, or a new rope tow in Stowe, some 18 miles out. If you have just an afternoon, the Commonwealth Country Club at the end of the Boston College-Commonwealth car line provides a rope and lots of company. Blue Hill and many of the others are all lighted for night skiing.

Boston Baedeker

By RICHARD J. POWELL

For a concert which promised so much in its selection of works, last Tuesday's recital at Huntington Hall was disappointing when it came to the performance itself. The Berkshire Quartet, presenting the Division of Humanities' third concert of the season, lacked a primary prerequisite for good ensemble playing—sound technical ability on the part of each member. Although there was a good bit of squeaking and scraping from the violins, the quartet's playing was generally adequate, but only that.

Haydn's Quartet in C, Opus 54, No. 2, opened the program. Here the Quartet sounded better when all four were playing than in the solo passages. Both tone and spirit were a little dull for music such as this. The Quartet No. 1, Opus 7, of Bela Bartok followed. When compared with the Quartet No. 4 performed at the last concert, Bartok's First Quartet is tame; its lyric melancholy tendencies mark the composer's less-venturesome early style. The ensemble played all the notes, sometimes with the needed brilliance and feeling. In the concluding Brahms C Minor Quartet, the Berkshire Quartet displayed better musicianship than it did earlier in the evening. David Dawson, viola, distinguished himself in all the works as the most competent of the Quartet.

Though the concert did not come up to the quality shown in the previous ones of Schneider and Kirkpatrick and the Hungarian Quartet, it offered, as did the others, all interested Technology students the wonderful opportunity of hearing chamber music as it should be heard—in live performance. We are indeed grateful to Mrs. Elizabeth Sprague Coolidge.

Concerts This Weekend

Fabien Sevitzyk and the Indianapolis Symphony Orchestra will give a concert at Symphony Hall this Saturday evening while the Boston Symphony is on tour.

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Sigma Nu, Phi Kappa Sigma Favored In Court Tournament

Phi Kappa Sigma and Sigma Nu have been installed as co-favorites in the round-robin playoffs of the intramural basketball championship. Regular season play ended last week and the playoffs begin tomorrow.

Paced by high scorers Otto Tonnesen and Chuck Lockerby, Sigma Nu easily swept through its League 5 schedule undefeated. Phi Kappa Sigma led by Jack Reeves and John Mattson likewise dominated League 1.

Theta Chi, tournament champs for the past two years, are once again in the finals after winning the League II crown. The Oxclubbers are undefeated in three years, and were led this year by Paul Smith and Lee Layton.

In a playoff to determine the winner of the League IV championship, the Grad House squad fought

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BRATTLEBORO, VERMONT

FINAL STANDINGS			
League I			
Phi Kappa Sigma	W	L	0
S. A. B.	6	1	5
Delta Psi	4	2	2
Beta Theta Pi	2	4	4
Munroe-Hayden	2	4	4
New Dorm D	2	4	4
Theta Delta Chi	0	6	6
League II			
Theta Chi	W	L	0
Senior House B	6	1	7
Delta Tau Delta	5	2	3
Pegis Club	4	3	2
Phi Kappa	2	5	3
Walker	2	5	3
New Dorm A	1	6	5
New Dorm E	0	6	6
League III			
Pi Lambda Phi	W	L	1
Barracks A	6	1	3
Sigma Alpha Mu	4	3	2
Phi Gamma Delta	4	3	2
Lambda Chi Alpha	3	4	1
Phi Delta Theta	3	4	1
New Dorm B	2	5	3
Goodale	0	6	6
League IV			
Graduate House	W	L	1
New Dorm C	7	2	3
Bemis-Walcott	6	3	2
D. K. E.	4	3	1
Phi Mu Delta	3	4	1
Agenda	2	5	3
D. U.	2	5	3
Barracks B	1	6	5
League V			
Sigma Nu	W	L	0
Chi Phi	5	1	4
Sigma Chi	4	2	3
Senior House A	3	3	2
Kappa Sigma	2	4	1
Theta Xi	1	5	4
League VI			
Phi Sigma Kappa	W	L	0
Chinese Club	5	2	3
Student House	3	3	2
A. T. O.	2	4	1
5:15 Club	1	5	4
Alpha Club	1	6	5

Swimmers Top Trinity, 44-31, Capturing Six Of Nine Events

Pucksters To Play 4 Times In 5 Days

Sporting a modest two-game winning streak, Ben Martin's hockey squad faces the rugged assignment of playing four games during the next five days. The marathon begins tonight, when the Engineers tangle with Bowdoin on the latter's outdoor rink.

Tomorrow afternoon, a game with Colby will complete the annual Maine trip. The Engineers are then listed for a Monday night tussle with Tufts, and an encounter with Northeastern on the following evening. Both of the latter games will be played at the Arena.

Dance

(Continued from Page 1)

ties of combining the three living groups for a large social affair.

Committees Need Assistance

Subcommittees for the administration and operation of the dance are Publicity, Decorations and Refreshments, and Tickets. It was announced that students wishing to work on these committees should contact their living group representative.

The final price and the place at which the dance is to be held will be announced later.

Riflemen Face Severest Test

Fire Against Cornell, Army And Maryland In Quadrangular Meet

Tech's varsity riflemen will meet their toughest competition of the season tomorrow afternoon, when they shoot a four-way match with the University of Maryland, the U. S. Military Academy, and Cornell University at the Fargo Building in Boston.

The Maryland team, which won the 1949 national intercollegiate championship, is led by 1948 Olympic Champion Arthur Cook, who also won the 1948 national senior title and was a member of the U. S. International Team that fired in Buenos Aires last fall.

May Decide Championship

The West Pointers, who won the championship before Maryland and have been one of the top three college teams ever since, will probably be at their best, since this match may decide the national championship for the 1950 season.

Cornell, although not of the same rank as Maryland and Army, is the strongest of the upstate New York teams, and has about the same record as the Engineers.

Engineers Ready

At a three-way match between Tech, Army and Maryland at Maryland last year, Maryland set a new college record of 1430 out of a possible 1500. Army fired 1406, and Tech came in third with 1377. The scores for Saturday are expected to be much closer, however. The Beavers will have their strongest combination ready for the contest, and hope to come out with their best score of the year.

Bowdoin Squad Here Tomorrow Afternoon

Taking six out of nine events, the Tech swimmers defeated Trinity in a dual meet at Alumni Pool last Wednesday. The Engineers amassed 44 points against 31 for the visiting Hilltoppers in achieving their second victory of the season.

There were no double winners in the meet. However, Engineer Captain Frank Conlin accounted for 8 points with a first place in the 220 yard freestyle and a second in the 440 yard freestyle.

Bowdoin's natators will visit Alumni Pool tomorrow afternoon for a meet beginning at 3:00 p.m. Meanwhile the Tech freshman squad will be swimming against Exeter at the latter's pool.

Summary:

300 yard medley relay: MIT, Trinity 3:08.1; 220 yard freestyle: Conlin (MIT), Baker (MIT), Mason (T), 2:24.9; 60 yard freestyle: Edgar (MIT), Ward (T), Costa (T), 24.5; Diving: Lehman (MIT), Hunk (T), Sprudle (T), 75.7; 100 yard freestyle: Ward (T), Coombs (MIT), Edgar (MIT), 54.7; 150 yard backstroke: Plummer (MIT), Jones (MIT), Steck (T), 1:44.5; 200 yard breaststroke: Brewer (T), Klassner (T), Tonnesen (MIT), 2:36.9; 440 yard freestyle: Damon (MIT), Conlin (MIT), Valle (T), 5:39.4; 400 yard freestyle relay: Trinity, MIT 3:58.2.

Wrestling, Squash Teams Listed For Home Contests

Engineer groaners and racquetmen will be performing on the home grounds this weekend.

The varsity wrestling team is entertaining Amherst's grapplers in a meet beginning at 2:00 p.m. The squash team will also be meeting Amherst in an effort to break into the win column for the first time this season.

W.P.I.'s courtmen will furnish the opposition in the next home basketball game to be held at Walker Gym next Wednesday night. Tomorrow night, Ted Heuchling's squad will be at Brown for a return engagement with the Bruins.

NEW career opportunities for you in the U. S. AIR FORCE as an OFFICER AND NAVIGATOR



In this era of long range flights, the role of the navigator has become increasingly important.

The U. S. Air Force now offers new opportunities to young college men between the ages of 20 and 26½ who are single and can qualify for such training.

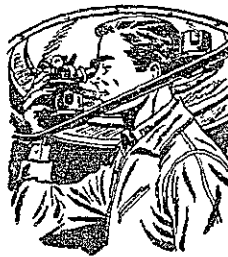
If you can meet the high physical and educational standards (at least two years of college), and are selected, you can be among the first to attend the new one-year navigator training course at Ellington Air Force Base near Houston, Texas. A new class begins each month!

Air Force officer procurement teams are visiting many colleges and universities to explain these career opportunities. Watch for their arrival—or get full details at your nearest Air Force Base, U. S. Army and U. S. Air Force Recruiting Station, or by writing to the Chief of Staff, U. S. Air Force, Attention: Aviation Cadet Branch, Washington 25, D. C.

You'll be an Aviation Cadet! And, you'll receive the best available training—including 184 hours in the new T-29 "Flying Classroom."

Then, graduation! You'll win your wings as a navigator . . . and a commission as a Second Lieutenant in the Air Force. After a 30-day leave with pay, you'll be ready for challenging assignments as navigator with one of the famous commands in the U. S. Air Force. Your office will be the "front office" of mighty bombers or long-range transports!

Be among the first to win your wings as a U. S. Air Force navigator under the new navigator training program—be a key man on the Air Force team!



Other Flying, Non-Flying Careers

Aviation Cadet pilot training is also available to young men between the ages of 20 and 26 1/2. See about the many nonflying assignments, too! Never before in peacetime has there been such a good opportunity for college-trained men and women to obtain regular commissions in the United States Air Force.



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HILLCREST INN—Manchester Dep.—366-W WINHALL MT. LDG.—Winhall—S. Lond. 26-5
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MANCHESTER VERMONT

Activity Briefs

Pershing Rifles

Company C-8 Pershing Rifles will hold a formal initiation for candidates today. Those to be initiated into the Society include Richard T. Cieslukiewicz '53; Stuart M. Kleinfelter '53; Stanley Lenard '53; Henry J. Myers '53; Sylvan Limon '53; Thomas C. Nelson '53; Eugene M. Romer '53; Ralph H. Sievers '53; Harvey I. Steinberg '53; Harold Taylor '52; Richard C. Wingerson '52; Frank T. Wheby '52; Harris J. Bixler '53, and Robert G. Wolfson '52.

The ceremony will be followed by an informal bull session and stag party.

Model Aircrafters

On Sunday, members of the Tech Model Aircrafters conducted a suc-

cessful flying scale model airplane contest in Rockwell Cage. The prize was a perpetual trophy which the club has for this specific event. Professors Otto Koppen and Frank Bentley judged the event. The first four contestants were Walt Mooney, Lloyd Licher, Richard Baxter, and Eugene Larrabee. Mooney made 57.6 seconds with his Piper Super Cruiser.

Flight Simulator

(Continued from Page 1)

this machine," Dr. Hall explains, "is to permit the development of high-speed aircraft with a reduction in the time, expense, and number of conventional flight tests."

Data from Wind Tunnel

A problem is worked out on the apparatus by setting electronic computer dials that represent the various important characteristics of the aircraft to be studied—weight, velocity, altitude, wing span and many others. Before the simulator can be used, many of these characteristics must be obtained from wind

tunnel tests of small models of the proposed aircraft.

Then the question is "fed" into the simulator by applying appropriate electrical signals through a control board. The answer is returned on a chart on a recording apparatus in a matter of seconds.

This computer, one of several types of such high-speed mathematical machines at Technology, adds, multiplies, integrates and subtracts at almost unbelievable speed. For example, a "simple" computation which would take an able operator 100 hours to carry out by hand is handled by the computer in 10 seconds and much more elaborate problems can also be handled in a matter of only minutes.

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Inst. Comm.

(Continued from Page 1)

moved, provided for the selection of three members who are to comprise a special committee to work with the Harvard Cooperative Society. They will compare the prices and quality of goods in the Coop with the neighborhood stores.

The following were chosen as delegates for the U.N. Conference sponsored by Connecticut College, to discuss the U.N. trusteeship coun-

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THE MOTHER CHURCH
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AND ST. PAUL STS., BOSTON
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(cell: Jerry Fisch '50, Mark Baxter '50, John Kern '50, Jack Jacoby '50, Claude Pasquier '50, Paul Morier-peterson '50, and Frank Parisi '50.

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